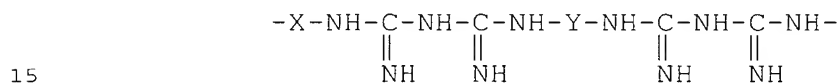


CLAIMS

1. A composition comprising:

- a) a material, said material comprising a surface;
5 b) an anionic surfactant on said surface; and
c) a polymeric biguanide noncovalently bonded to said anionic surfactant.

2. The composition of claim 1, wherein the polymeric
10 biguanide is a recurring unit of the following formula, or a salt thereof:



wherein X and Y are bridging groups that may be the same or different, such that the number of N to N carbon atoms within X plus the number of N to N carbon atoms within Y is in the range
20 9 to 17, where the number of N to N carbon atoms within a bridging group is the number of backbone carbon atoms that, in that group, separate the N atoms adjacent to that group.

3. A composition of Claim 2 wherein the polymeric
25 biguanide is polyhexamethylene biguanide (PHMB).

4. The composition of Claim 1 wherein the concentration of the polymeric biguanide is in the range 5 to 50 mg per square meter of the surface.

5. The composition of Claim 4 wherein the concentration of the polymeric biguanide is in the range 8 to 19 mg per square meter of the surface.

5

6. The composition of Claim 1 wherein the polymeric biguanide is limited to a zone of said surface.

7. The composition of Claim 6 wherein the concentration of
10 the polymeric biguanide in the zone is in the range 5 to 50 mg per square meter of the zone.

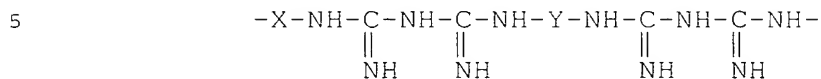
8. The composition of Claim 7 wherein the concentration of the polymeric biguanide in the zone is in the range 8 to 19 mg
15 per square meter of the zone.

9. The composition of claim 1, wherein said composition is produced by a process comprising the steps of:

- (1) pre-treating the surface of the composition with
20 the anionic surfactant, and then
(2) applying the polymeric biguanide to the surface.

10. The composition of Claim 9 wherein the polymeric biguanide is applied to the surface using a kiss-on or brush
25 roller.

11. The composition of claim 10, wherein the polymeric biguanide is a recurring unit of the following formula, or a salt thereof:



wherein X and Y are bridging groups that may be the same or
10 different, such that the number of N to N carbon atoms within X
plus the number of N to N carbon atoms within Y is in the range
9 to 17, where the number of N to N carbon atoms within a
bridging group is the number of backbone carbon atoms that, in
that group, separate the N atoms adjacent to that group.

15

12. A composition of Claim 11 wherein the polymeric biguanide is PHMB.

13. The composition of Claim 9 wherein the polymeric
20 biguanide is applied to the surface using a spray or foam
comprising the polymeric biguanide.

14. The composition of Claim 1 wherein the material is a
liquid-pervious nonwoven web.

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15. The composition of Claim 14 wherein the web has a
weight in the range 10 to 30 gram per square meter.

16. The composition of Claim 1 wherein the material is a liquid-pervious apertured film.

17. The composition of Claim 16 wherein the material has a weight in the range 15 to 40 grams per square meter.

18. The composition of Claim 1 wherein the material comprises fibers.

19. The composition of Claim 18 wherein the fibers are selected from the group consisting of staple fibers and continuous fibers.

20. The composition of Claim 18 wherein the fibers are part of a carded web.

21. The composition of Claim 18 wherein the fibers have been spunbond, thermally bonded, ultrasonically bonded, adhesively bonded, or combined by hydroentangling.

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22. The composition of Claim 18 wherein the anionic surfactant was added as a melt additive to the fibers.

23. The composition of Claim 1 wherein the composition is a topsheet for use in an absorbent article.

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24. The composition of Claim 23 wherein the absorbent article is selected from the group consisting of a disposable

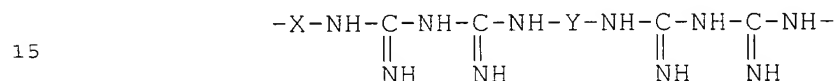
diaper, a disposable incontinence pad and a disposable feminine hygiene pad.

25. A composition comprising:

5 a) a material, said material comprising an anionic surface; and

b) a polymeric biguanide noncovalently bonded to said anionic surface.

10 26. The composition of claim 25, wherein the polymeric biguanide is a recurring unit of the following formula, or a salt thereof:



wherein X and Y are bridging groups that may be the same or different, such that the number of N to N carbon atoms within X plus the number of N to N carbon atoms within Y is in the range 9 to 17, where the number of N to N carbon atoms within a bridging group is the number of backbone carbon atoms that, in that group, separate the N atoms adjacent to that group.

25 27. A composition of Claim 26 wherein the polymeric biguanide is PHMB.

28. The composition of Claim 25 wherein the concentration of the polymeric biguanide is in the range 5 to 50 mg per square meter of the surface.

5 29. The composition of Claim 28 wherein the concentration of the polymeric biguanide is in the range 8 to 19 mg per square meter of the surface.

30. The composition of Claim 25 wherein the polymeric
10 biguanide is limited to a zone of said surface.

31. The composition of Claim 30 wherein the concentration of the polymeric biguanide in the zone is in the range 5 to 50 mg per square meter of the zone.

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32. The composition of Claim 31 wherein the concentration of the polymeric biguanide in the zone is in the range 8 to 19 mg per square meter of the zone.

20 33. The composition of claim 25, wherein said composition is produced by a process comprising the steps of:

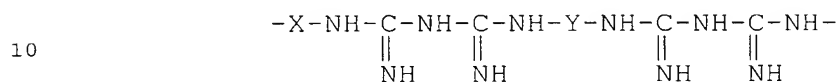
(2) pre-treating the surface of the composition with the anionic surfactant, and then

(2) applying the polymeric biguanide to the surface.

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34. The composition of Claim 33 wherein the polymeric biguanide is applied to the surface using a kiss-on or brush roller.

5 35. The composition of claim 34, wherein the polymeric biguanide is a recurring unit of the following formula, or a salt thereof:



wherein X and Y are bridging groups that may be the same or different, such that the number of N to N carbon atoms within X plus the number of N to N carbon atoms within Y is in the range 9 to 17, where the number of N to N carbon atoms within a bridging group is the number of backbone carbon atoms that, in that group, separate the N atoms adjacent to that group.

20 36. A composition of Claim 35 wherein the polymeric biguanide is PHMB.



37. The composition of Claim 33 wherein the polymeric biguanide is applied using a spray or foam comprising the
25 polymeric biguanide.

38. The composition of Claim 25 wherein the material is a liquid-pervious nonwoven web.

39. The composition of Claim 38 wherein the web has a weight in the range 10 to 30 gram per square.

40. The composition of Claim 25 wherein the material is a
5 liquid-pervious apertured film.

41. The composition of Claim 40 wherein the material has a weight in the range 15 to 40 grams per square meter.

10 42. The composition of Claim 25 wherein the material comprises fibers.

43. The composition of Claim 42 wherein the fibers are selected from the group consisting of staple fibers and
15 continuous fibers.

44. The composition of Claim 42 wherein the fibers are part of a carded web.

20 45. The composition of Claim 42 wherein the fibers have been spunbond, thermally bonded, ultrasonically bonded, adhesively bonded, or bonded by hydroentangling.

46. The composition of Claim 25 wherein the composition is
25 a topsheet for use in an absorbent article.

47. The composition of Claim 46 wherein the absorbent article is selected from the group consisting of a disposable diaper, a disposable incontinence pad and a disposable feminine hygiene pad.

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48. An absorbent article that comprises, as a topsheet, a composition of Claim 1.

49. An absorbent article of Claim 48, said article
10 selected from the group consisting of a disposable diaper, a disposable incontinence pad and a disposable feminine hygiene pad.

50. An absorbent article that comprises, as a topsheet, a
15 composition of Claim 25.

51. An absorbent article of Claim 50, said article selected from the group consisting of a disposable diaper, a disposable incontinence pad and a disposable feminine hygiene pad.
20

52. An absorbent article, said article comprising a topsheet, an intermediate layer, an absorbent layer, and a backsheet, wherein the intermediate layer is the layer next to the topsheet, wherein the topside surface of said intermediate
25 layer is the surface in contact with the topsheet, and wherein the intermediate layer is a composition of Claim 1, and wherein

said topside surface comprises the anionic surfactant and the polymeric biguanide.

53. An absorbent article of Claim 52, said article
5 selected from the group consisting of a disposable diaper, a disposable incontinence pad and a disposable feminine hygiene pad.

54. An absorbent article, said article comprising a
10 topsheet, an intermediate layer an absorbent layer, and a backsheet, wherein the intermediate layer is the layer next to the topsheet, wherein the topside surface of said intermediate layer is the surface in contact with the topsheet, and wherein the intermediate layer is a composition of Claim 25, and wherein
15 said topside surface is comprises the polymeric biguanide.

55. An absorbent article of Claim 54, said article
selected from the group consisting of a disposable diaper, a disposable incontinence pad and a disposable feminine hygiene
20 pad.